



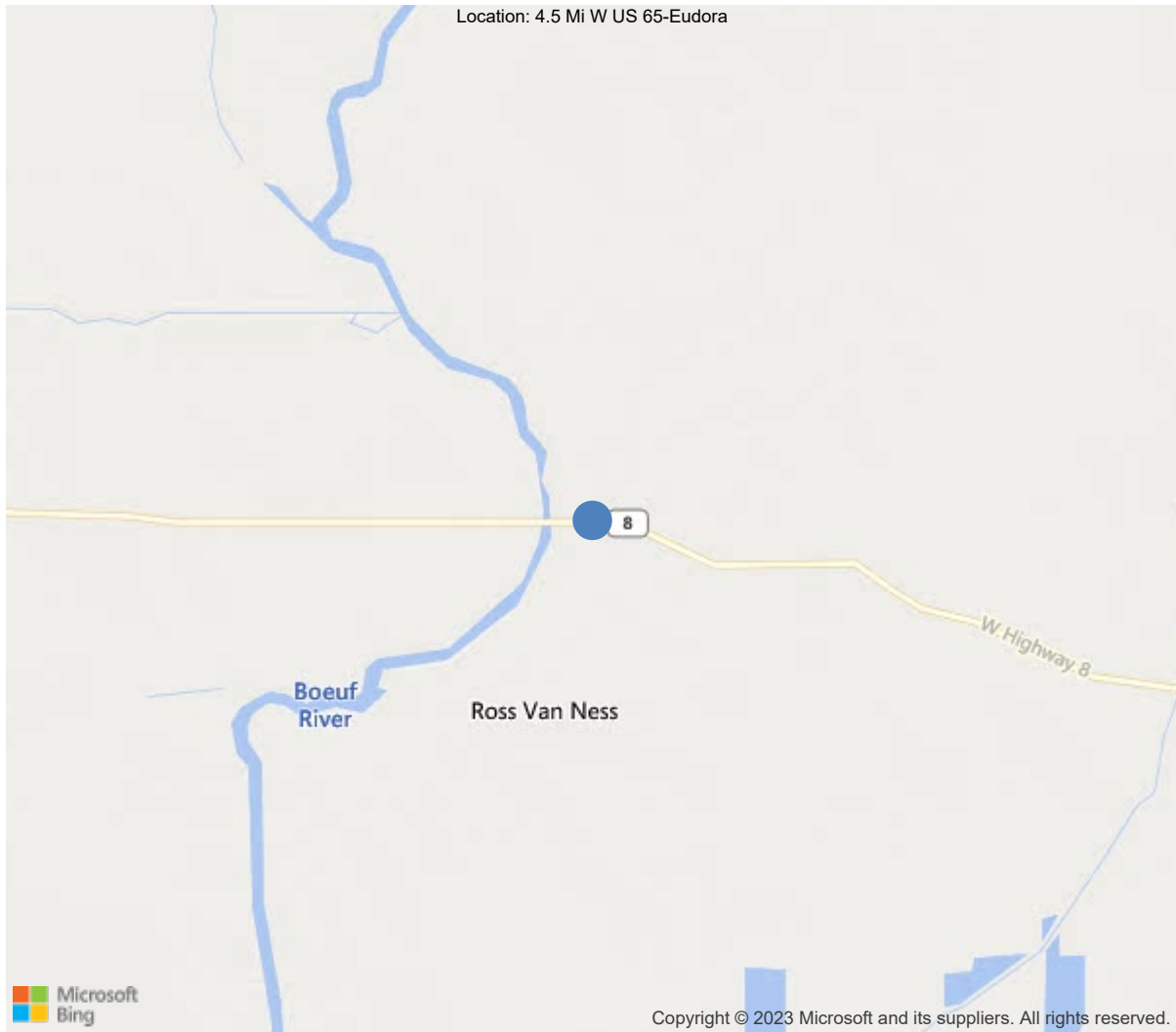
Latitude:33.12432, Longitude:-91.34438

Route:8 Section:16 Log:7.12

Arnold Road ID:9x8x16xA, Arnold Log mile:7.102

District 02, 17 - Chicot County

Owner: 1 - State Highway Agency



33.12432, -91.34438



Asset #02964(Routine)

SH 8-16 LM 7.12 over Boeuf River Relief

Location: 4.5 Mi W US 65-Eudora

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02964
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	17 - Chicot County
(4) Place Code	0
(6) Features Intersected	Boeuf River Relief
(7) Facility Carried	SH 8-16 LM 7.12
(9) Location	4.5 Mi W US 65-Eudora
(11) Mile Point	7.12 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.12432
(17) Longitude	-91.34438
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	2
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1955
(106) Year Reconstructed	0
(42) Type of Service	19
On	1 - Highway
Under	9 - Relief for waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	496
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	25 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	56 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	5 - None present but re-evalua
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	45
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	27
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	501
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	06/01/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.</p>			



Asset #02964(Routine)

District: 02, County: 17 - Chicot County

Team Lead: Greg Loomis, Inspection Date: 06/01/2022

General Observation

Bridge is logged from west to east.

Beginning of structure toward Ashley/Chicot County Line, West End.

Updated LM from 7.23 to 7.12 per Str Ln from Tech Serv. dated 10/09. DRB, 1/5/2010

A-46 - Asset Files

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1484	1295	152	37	0
1080	Delamination/Spall/Patched Area	SF	100	0	100	0	0
1090	Exposed Rebar	SF	63	0	26	37	0
1120	Efflorescence/Rust Staining	SF	10	0	10	0	0
1130	Cracking (RC and Other)	SF	16	0	16	0	0
510	Wearing Surfaces	SF	1344	1272	72	0	0
3220	Crack (Wearing Surface)	SF	72	0	72	0	0
(38) Deck: 26'-6" wide (posts NOT included) x 56' long = 1484 sqft. Wearing surface: 24' wide x 56' long = 1344 sqft. Minor-sized transverse cracking in asphalt wearing surface at bridge ends and at Bent 2 - 72 sqft CS2 cracking. Soffit: Some minor spalling/delaminations with some rebar exposure (light section loss), especially on outside of spans under gutter-lines and on Span 2 along edge of Bent 2 cap. Hairline- to minor- sized longitudinal crack along centerline with 8-10' of efflorescence near Bent 3.							
215	Reinforced Concrete Abutment	LF	75	33	34	8	0
1090	Exposed Rebar	LF	2	0	2	0	0
6000	Scour	LF	40	0	32	8	0
(215) Abutments: 27'-6" = 28' each (with 4'-9 1/2" wings each corner) / Bents 1 & 3. Both abutments have small areas of exposed rebar due to steel being too close to forms (as-built condition) - 2' CS2 exposed rebar. End-slopes - Bents 1 & 3: Some minor (4-6") settlement of end slope material, somewhat exposing piling and bottom of cap - 32' CS2 scour.							
227	Reinforced Concrete Pile	EA	4	0	4	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
(227) Piling: 4 per bent / Bent 2. Bent 2: Minor abrasion and loss of surface mortar - CS2 abrasive wear x 4.							
234	Reinforced Concrete Pier Cap	LF	28	12	8	8	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	12	0	4	8	0
(234) Cap: 27'-6" = 28' each / Bent 2. Some small delaminations and one area of spalling (rebar exposure with light section loss) on back face of cap - 4' CS2 exposed rebar. Some light deterioration beginning on end corners - 4' CS2 spalling.							
301	Pourable Joint Seal	LF	24	0	0	24	0
2350	Debris Impaction	LF	24	0	0	24	0
(301) Joints: 24' each / Bent 2. Joint seals have debris impaction from asphalt overlay - 24' CS3 debris impaction.							

Team Lead: Greg Loomis, **Inspection Date:** 06/01/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
330	Metal Bridge Railing	LF	112	84	28	0	0
1000	Corrosion	LF	28	0	28	0	0
515	Steel Protective Coating	SF	302	0	226	76	0
3410	Chalking (Steel Protective Coatings)	LF	226	0	226	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	76	0	0	76	0
(330) Railing: 56' each side.							
Coating: 2.7 square feet per linear feet of railing.							
Scattered light surface rust throughout - with scratches and scrapes and primer showing in many areas.							
Remaining paint is dull and mold-covered.							

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1484	1295	152	37	0
1080	Delamination/Spall/Patched Area	SF	100	0	100	0	0
1090	Exposed Rebar	SF	63	0	26	37	0
1120	Efflorescence/Rust Staining	SF	10	0	10	0	0
1130	Cracking (RC and Other)	SF	16	0	16	0	0
510	Wearing Surfaces	SF	1344	1272	72	0	0
3220	Crack (Wearing Surface)	SF	72	0	72	0	0
<p>(38) Deck: 26'-6" wide (posts NOT included) x 56' long = 1484 sqft. Wearing surface: 24' wide x 56' long = 1344 sqft. Minor-sized transverse cracking in asphalt wearing surface at bridge ends and at Bent 2 - 72 sqft CS2 cracking.</p> <p>Soffit: Some minor spalling/delaminations with some rebar exposure (light section loss), especially on outside of spans under gutter-lines and on Span 2 along edge of Bent 2 cap. Hairline- to minor- sized longitudinal crack along centerline with 8-10' of efflorescence near Bent 3.</p>							



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Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	75	33	34	8	0
1090	Exposed Rebar	LF	2	0	2	0	0
6000	Scour	LF	40	0	32	8	0
(215) Abutments: 27'-6" = 28' each (with 4'-9 1/2" wings each corner) / Bents 1 & 3. Both abutments have small areas of exposed rebar due to steel being too close to forms (as-built condition) - 2' CS2 exposed rebar . End-slopes - Bents 1 & 3: Some minor (4-6") settlement of end slope material, somewhat exposing piling and bottom of cap - 32' CS2 scour.							
227	Reinforced Concrete Pile	EA	4	0	4	0	0
1190	Abrasion/Wear (PSC/RC)	EA	4	0	4	0	0
(227) Piling: 4 per bent / Bent 2. Bent 2: Minor abrasion and loss of surface mortar - CS2 abrasive wear x 4.							
234	Reinforced Concrete Pier Cap	LF	28	12	8	8	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	12	0	4	8	0
(234) Cap: 27'-6" = 28' each / Bent 2. Some small delaminations and one area of spalling (rebar exposure with light section loss) on back face of cap - 4' CS2 exposed rebar. Some light deterioration beginning on end corners - 4' CS2 spalling.							



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Right side view



Roadway view



Deck - Spans 1-2: Typical



Soffit -Span 2 :Typical

Maintenance Needs

Date Reported: 05/30/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Assigned

Component: Element

Deficiency Description

Cap - Bent 2:

Some small delaminations and one area of spalling (rebar exposure with light section loss) on back face of cap.
Some light deterioration beginning on end corners.

Remarks



Bent 2 cap back has spalls with exposed rebar.



Cap - Bent 2 back (rebar exposed)

Maintenance Needs

Date Reported: 05/30/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Assigned

Component: Element

Deficiency Description

Soffit - both spans:

Some minor spalling/delaminations with some rebar exposure (light section loss), especially on outside of spans under gutter-lines and on Span 2 along edge of Bent 2 cap.

Remarks



Soffit - Span 2 @ Bent 3 (efflorescence)



Soffit - Span 2 left (rebar exposed)



Spalls with exposed rebar at span 1 right side of soffit area near midspan towards bent 2 .



Soffit - Span 2 @ Bent 2 (delaminations)

Maintenance Needs

Date Reported: 05/30/2018

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Assigned

Component: Channel

Deficiency Description

Channel - Spans 1-2: Significant vegetation growth (grasses/weeds) on both sides of bridge.

Remarks



Elevation.



Large vines and vegetation .



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Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	



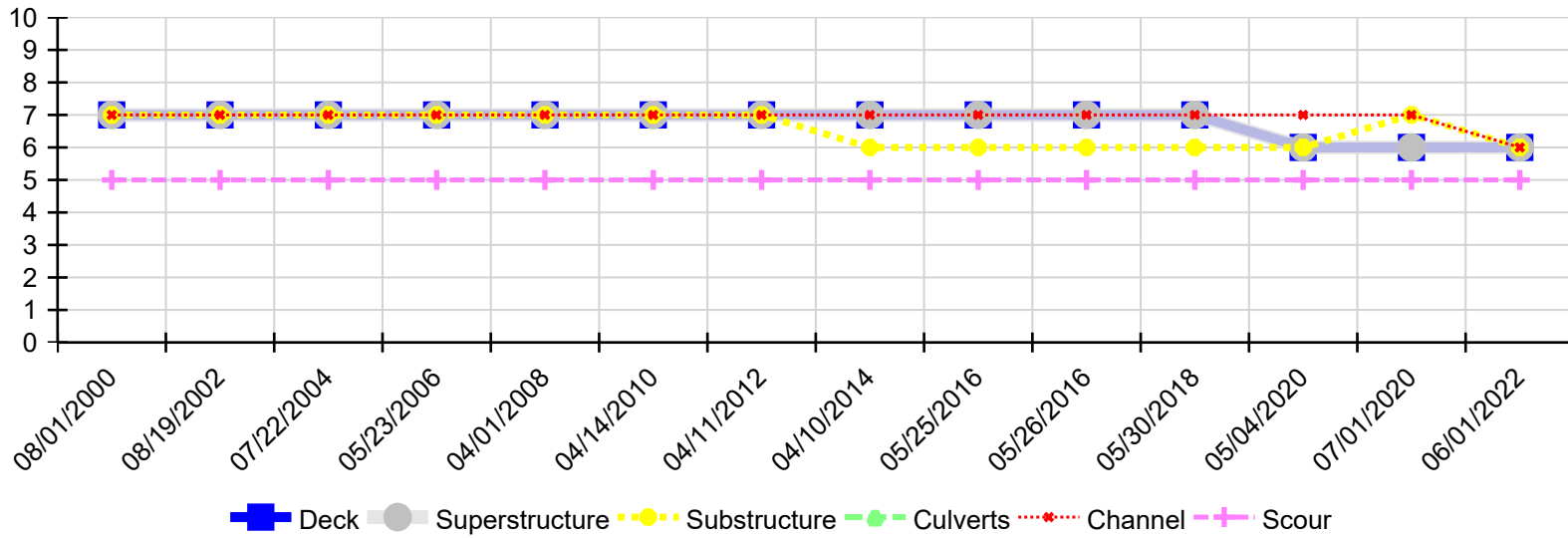
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/01/2022	6	6	6	N	6	5
07/01/2020	6	6	7	N	7	5
05/04/2020	6	6	6	N	7	5
05/30/2018	7	7	6	N	7	5
05/26/2016	7	7	6	N	7	5
05/25/2016	7	7	6	N	7	5
04/10/2014	7	7	6	N	7	5
04/11/2012	7	7	7	N	7	5
04/14/2010	7	7	7	N	7	5
04/01/2008	7	7	7	N	7	5
05/23/2006	7	7	7	N	7	5
07/22/2004	7	7	7	N	7	5
08/19/2002	7	7	7	N	7	5
08/01/2000	7	7	7	N	7	5